



Fire Protection Training

Procedures Handbook 4300

HOSE APPLIANCES & TOOLS

TOPIC: Features Of Fire Service Siamese

TIME FRAME: :20

LEVEL OF INSTRUCTION: Level II

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will identify the parts and distinguishing features of fire service siamese.

Standard: With a minimum of 80% accuracy

MATERIALS NEEDED:

- Siamese appliances
- White board and erasable markers
- Appropriate visual aids

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 5th Edition, Chapter 13

PREPARATION:

In a major fire situation a simple 2-1/2" or other medium sized hose line may not supply sufficient water to meet fire flow requirements. The addition of a second line, used in conjunction with a siamese appliance, can increase the volume of water and significantly reduce friction loss.



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FEATURES OF A FIRE SERVICE
SIAMESE APPLIANCE

PRESENTATION	APPLICATION
<p>I. USES OF SIAMESE APPLIANCES</p> <ul style="list-style-type: none">A. Combine two hose lines into one or more hose line or devicesB. Examples<ul style="list-style-type: none">1. Combine two parallel supply lines to the pump2. Connected to the hydrant to allow an engine to boost hydrant pressure3. Allows engine to fill without shutting down pumping operations (Clappered siamese only) <p>II. TYPES OF SIAMESE APPLIANCES</p> <ul style="list-style-type: none">A. Straight Siamese<ul style="list-style-type: none">1. Does not have a water direction flow control device2. Must shut down operation to connect or disconnect linesB. Clappered Siamese<ul style="list-style-type: none">1. Each outlet (discharge) has a flow control device or clapper valve which automatically shuts off water flow to unused outlet<ul style="list-style-type: none">a. Triamese, also called manifold<ul style="list-style-type: none">(1) Three clappered inlets(2) Commonly use when LDH is not available to overcome friction loss in exceptionally long hose lays or those that carry a large flow2. Allows apparatus to connect or disconnect without interrupting the pumping operations <p>III. PARTS OF A SIAMESE APPLIANCE</p> <ul style="list-style-type: none">A. Inlet (supply) connections<ul style="list-style-type: none">1. Clappered or2. Unclappered3. Two female couplings	

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<ul style="list-style-type: none">B. Outlet (discharge) connection<ul style="list-style-type: none">1. Unclappered2. Single male couplingC. Body<ul style="list-style-type: none">1. The housing which<ul style="list-style-type: none">a. Serves to contain and direct water flowb. Protects interior partsD. Swivels<ul style="list-style-type: none">1. On each inlet (supply) connection <p>IV. CARE AND MAINTENANCE</p> <ul style="list-style-type: none">A. Gaskets<ul style="list-style-type: none">1. Pliable2. Good state of repair3. In proper positionB. Swivels<ul style="list-style-type: none">1. Free spinning<ul style="list-style-type: none">a. If not<ul style="list-style-type: none">(1) Wash in warm soapy water(2) Apply dry lubricant (graphite)b. Need to use periodically2. Round<ul style="list-style-type: none">a. If run over or dropped may become oval shapeb. Repair or replace as neededC. Threads<ul style="list-style-type: none">1. In good condition<ul style="list-style-type: none">a. Free of<ul style="list-style-type: none">(1) Nicks(2) Burrs	

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<ul style="list-style-type: none">(3) Tar(4) Contamination and debrisb. Repair or replace as necessary<ul style="list-style-type: none">(1) Wash and brush with warm soapy water(2) File off nicks or burrsD. Body<ul style="list-style-type: none">1. Wash with brush and soapy waterE. Clapper<ul style="list-style-type: none">1. Exercise to ensure operation2. Wash/immerse in warm soapy water	

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SUMMARY:

Siamese appliances are essential equipment for fireground evolutions which require an increase in the volume of water supplied to a single hose line.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).